

Name: _____

at1113exam: Expand, factor, and solve quadratics (v318)

1. Expand the following expression into standard form.

$$(4x - 3)(8x + 5)$$

2. Expand the following expression into standard form.

$$(2x + 5)^2$$

3. Expand the following expression into standard form.

$$(7x - 8)(7x + 8)$$

4. Solve the equation.

$$(2x - 9)(8x + 3) = 0$$

5. Solve the equation with factoring by grouping.

$$12x^2 + 10x + 18x + 15 = 0$$

6. Factor the expression.

$$81x^2 - 25$$

7. Solve the equation.

$$12x^2 + 44x + 26 = 5x^2 - 3x - 4$$

8. Factor the expression.

$$x^2 + 11x + 30$$